

CLAIMS

1. A polymeric product having oil repellent properties comprising an amino-functional polysiloxane (A) bonded through its amino groups to an addition copolymer (B) of (B1) a fluoro-substituted alkyl ester of an olefinically unsaturated carboxylic acid and (B2) an olefinically unsaturated monomer having a functional group capable of reacting with the amino groups of polysiloxane (A) and optionally (B3) one or more olefinically unsaturated comonomers.
2. A polymeric product according to Claim 1 characterised in that the amino-functional polysiloxane (A) is a polydiorganosiloxane containing aminoalkyl groups of the formula $R-(NH-A')_q-NH-A-$ attached to silicon, wherein A and A' are each independently a linear or branched alkylene group having 1 to 6 carbon atoms; $q = 0-4$; and R is hydrogen or an alkyl or hydroxyalkyl group having 1 to 4 carbon atoms.
3. A polymeric product according to Claim 1 or Claim 2 characterised in that the fluoro-substituted alkyl ester monomer B1 is an acrylate or methacrylate ester of the formula $CH_2=C(R'')COO-D-R_f$ or $CH_2=C(R'')COO-R_f$ where R_f is a branched or linear fluoroalkyl group having 3 to 21 carbon atoms, R'' is H or methyl, and D is a divalent organic group.
4. A polymeric product according to any of Claims 1 to 3 characterised in that the monomer B2 is a substituted alkyl acrylate or methacrylate ester wherein the substituent in the alkyl group is a functional group capable of reacting with the amino groups of polysiloxane (A).
5. A polymeric product according to any of Claims 1 to 4, characterised in that the amino-functional polysiloxane (A) is bonded to the copolymer (B) by $-N(R)-CH_2-CHOH-$ linkages derived from reaction of the amino groups of (A) with epoxide groups in the copolymer (B), where R is hydrogen or an alkyl or hydroxyalkyl group having 1 to 4 carbon atoms.

6. A polymeric product according to any of Claims 1 to 5 characterised in that the functional group in monomer (B2) capable of reacting with the amino groups of polysiloxane (A) is an anhydride, lactone, imide, carboxylic acid group, isocyanate or blocked isocyanate.
7. A polymeric product according to any of Claims 1 to 6 characterised in that the copolymer (B) contains a comonomer (B3) which is an alkyl acrylate or methacrylate having 1 to 30 carbon atoms in the alkyl group.
8. A process for the preparation of a product having oil repellent properties characterised in that an amino-functional polysiloxane (A) is reacted with an addition copolymer (B) of (B1) a fluoro-substituted alkyl ester of an olefinically unsaturated carboxylic acid and (B2) an olefinically unsaturated monomer having a functional group capable of reacting with the amino groups of polysiloxane (A) and optionally (B3) one or more olefinically unsaturated comonomers.
9. A polymeric product having oil repellent properties prepared by the process of Claim 8.
10. A textile treatment composition comprising a polymeric product according to any of Claims 1 to 7 or 9.
11. A process for rendering a fabric hydrophobic and oleophobic characterised in that a polymeric product according to any of Claims 1 to 7 or 9 is applied to the textile fabric.
12. A process for rendering leather hydrophobic and oleophobic characterised in that a polymeric product according to any of Claims 1 to 7 or 9 is applied to the leather either during wet end processing or leather finishing.
13. A process for rendering paper hydrophobic and oleophobic characterised in that a polymeric product according to any of Claims 1 to 7 or 9 is applied to the paper.